INSTALLATION GUIDE

1350
1350m

UltraStart

Advanced Remote Vehicle Starting System

AUTOMATIC AND MANUAL TRANSMISSION MODELS

WWW.ULTRASTARTERS.COM

ATTENTION

-The system must be placed into Service Mode before any service work is started on the vehicle. It is the sole responsibility of the vehicle owner to ensure that this is done. The manufacturer accepts no liability or responsibility for accidental starting of the vehicle.
- CARBON MONOXIDE - Never Start In A Enclosed Building (Garage, Carport etc...)
- The Hood Pin Safety Switch Must Always Be Installed!
- Never Install Automatic Transmission Remote Starters On Manual Transmission Vehicles!

FCC/ID Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
CAUTION: Changes or modifications not expressly approved by the part responsible for compliance void the user's authority to operate this devise.

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DIAGNOSTICS

PARK LIGHTS	STATUS LED	DIAGNOSTIC CODE
3 Flashes	Series of 3 Flashes	Door Opened “M” Models
3 Slow Flashes	LED’s On Solid	System Is In Service Mode
4 Slow Flashes	Series of 4 Flashes	Not in Reservation Mode “M” units
5 Flashes	Series of 5 Flashes	Hood Pin Opened
5 Slow Flashes	Series of 5 Flashes	Ignition On During Start Attempt
6 Flashes	Series of 6 Flashes	Brake Pedal Shutdown
7 Flashes	Series of 7 Flashes	Tach Lock-Out
8 Flashes	Series of 8 Flashes	3 Start Attempts with no start

If the remote starter has a failed start attempt or if a safety input is activated the Diagnostic Memory will store up to four shutdowns in memory. This information can then be accessed to determine the source of the shutdown.

To Enter Diagnostic Mode:

Step 1 - Turn the ignition on wait two seconds then turn off. Press the Program Button and release.

Step 2 - The system will respond with three park light flashes and the horn will honk (optional) the same number of times as the events in memory. (Maximum four events, four honks)

NOTE: If the horn does not honk, there are no events in memory.

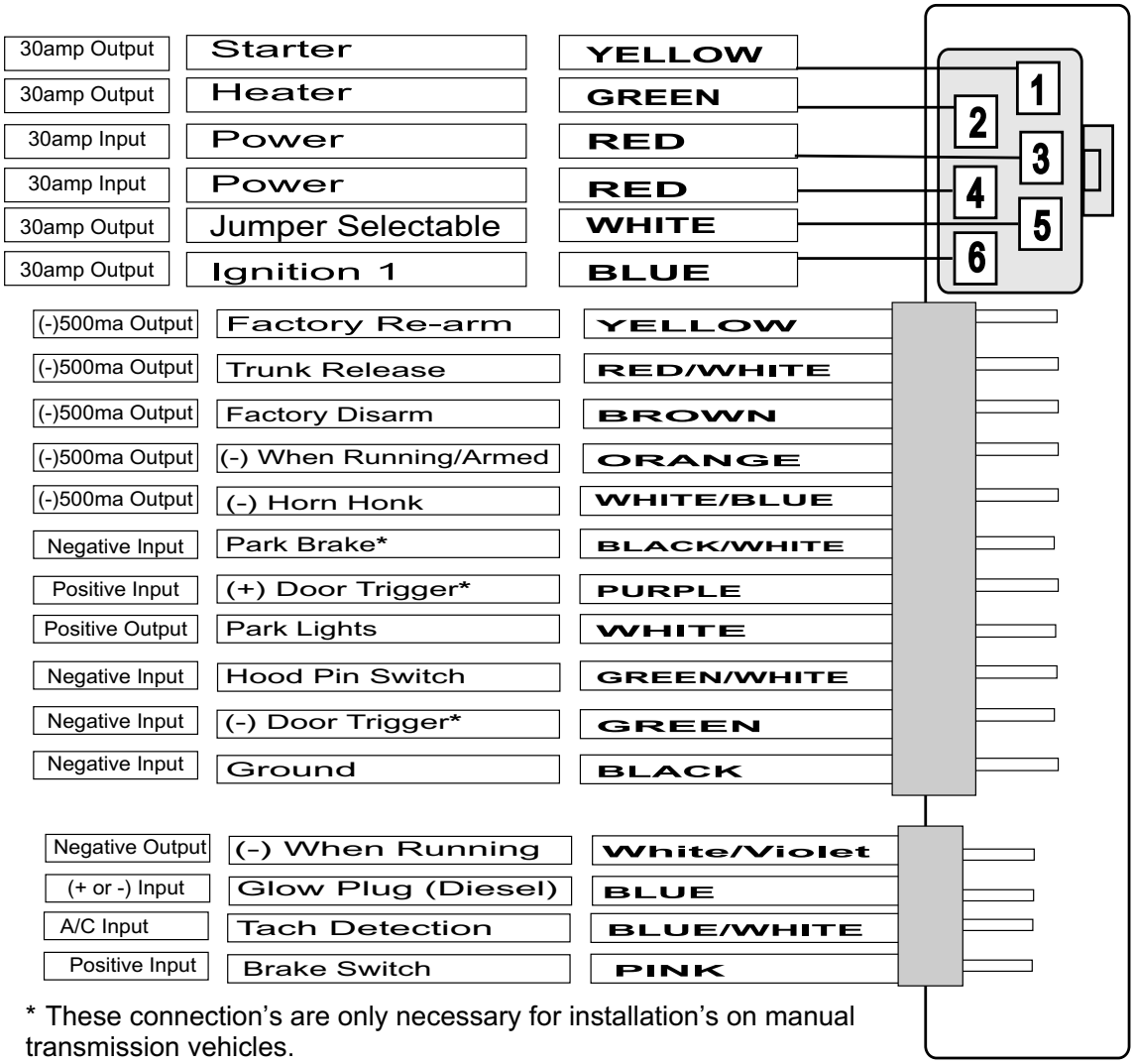
Step 3 - Press the Program Button once to view the last shut down code. The (optional) Horn willhonk once to confirm code one. (If the horn does not honk, there are no codes in memory).

Step 4 - The LED’s on the antenna will flash a code corresponding to a shut down trigger. Press the Program Button again to check the second code. The horn will honk twice to confirm code two.

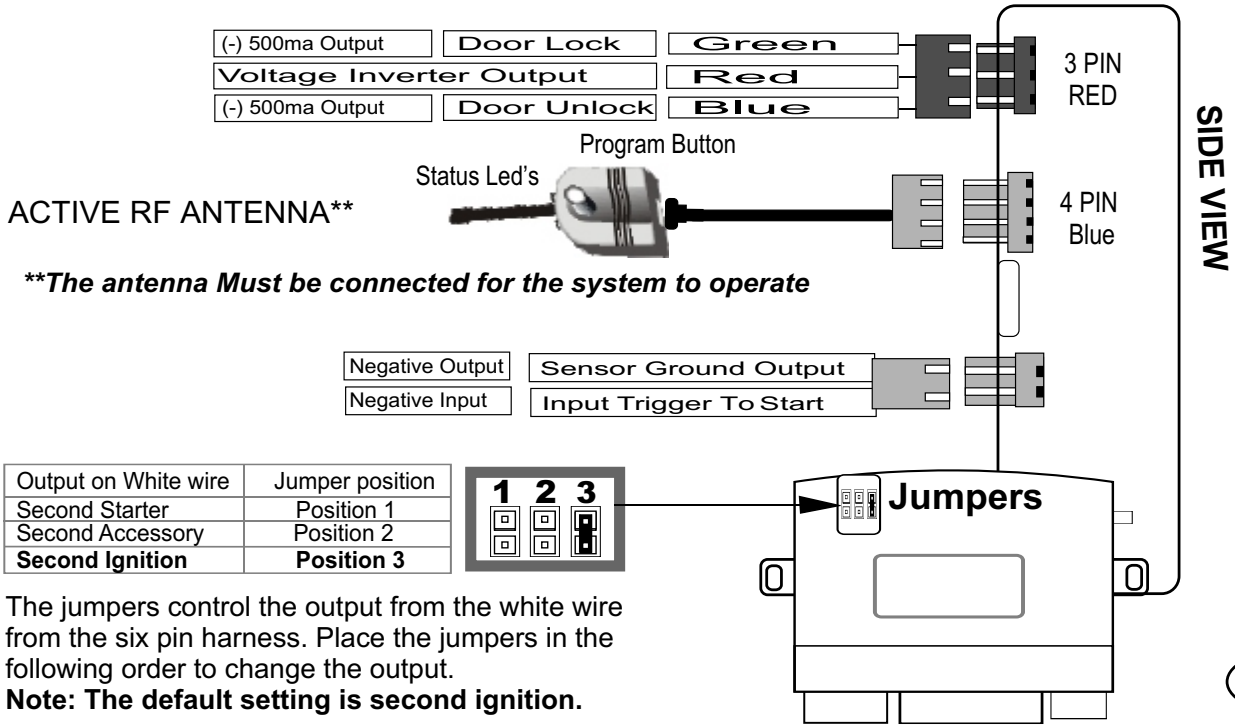
Step 5 - To **Clear Diagnostic Memory.** While in Diagnostic Mode press and hold the Program Button for five seconds. The park lights will flash and the horn(optional) will honk once.

NOTE: Once diagnostic memory has 4 shutdown events in memory, the system will not record any further shutdown events until the system memory has been cleared.

WIRING DIAGRAM 1350



* These connection's are only necessary for installation's on manual transmission vehicles.



The antenna Must be connected for the system to operate

Output on White wire	Jumper position
Second Starter	Position 1
Second Accessory	Position 2
Second Ignition	**Position 3**

The jumpers control the output from the white wire from the six pin harness. Place the jumpers in the following order to change the output.
Note: The default setting is second ignition.

INSTALLATION TIPS

Components

- Control module
- Remote transmitter(s)
- Antenna with built in Program Button and LED's
- 6 pin main harness with dual 30amp power inputs.
- 11 pin harness
- 5 pin harness
- 3 pin keyless entry harness
- Hood pin safety switch
- Cold Start Temperature Sensor
- Installation and Owners Manual

Recommended Pre-Installation Procedures

BEFORE STARTING INSTALLATION:
- Discuss the optional features with the customer.
- Take a few minutes to review the installation and owners manuals.
- Check if the vehicle has a factory security or anti-theft system.
  *If equipped, inform the customer of addition parts and labour.
- Do a walk around the vehicle and check for any damage.
- If installing a LED discuss the placement with customer before installing.

Note: This remote starter is designed for fuel injected and diesel engines.

NEVER INSTALL AUTOMATIC TRANSMISSION STARTER IN AMANUAL TRANSMISSION VEHICLE!!

Recommended Installation Procedures

Proper Connections - Remote Starters can handle loads of up to 30 amps for extended periods of time. It is CRITICAL to insure that ALL high current connections are properly soldered and insulated with quality electrical tape. Failing to insure proper connections will result in warranty being VOID and can result in a FIRE. The manufacturer is not responsible for any such damages. It only takes a few more minutes to do the job RIGHT.

Under Hood Connections - Route the hood pin and tach wires through the firewall into the engine compartment. Always try to pull the wires through a factory rubber grommet. If drilling through the firewall, **BE CAREFUL**. Check for obstructions on both sides of the firewall. After drilling use a snap in grommet to protect the wires from sharp edges.

Installing the External Long Range Antenna - To insure the best possible reception, place the antenna in the center of the windshield, behind the rear view mirror. Before attaching to the glass ensure that the surface is clean and dry. For best results with range, place the antenna below the tint screen. Run the cable under the headliner and behind the A-pillar panel. Be careful not to pinch the antenna cable. Plug the antenna into the **BLUE** connector on the Control Module.
NOTE: This step is not used on Alarm Only Units with no External Antenna.

Mounting The Control Module - Never mount the module in the engine compartment. Select a location under the dash to install the main module. Be certain that the module is securely attached and does not obstruct any serviceable areas. Do not force or jam the module into tight places instead of mounting. The module must be free from all moving parts such as brake and clutch as gas pedals linkages. Do not place the module directly in front of a heater vent.

Testing The System - When the installation is complete, it will be necessary to test that the system is working correctly. The system's default programming will work on the majority of vehicles, but might need to be adjusted for some applications. If the installation requires special timing or additional features, proceed to Program Mode.

ATTENTION: Hood Pin MUST always be connected!!

NOTE: Always inform user to place system in Service Mode before any service work is performed on the vehicle.

6 Pin Power Connector

Yellow	Starter	30amp output	*12volts during crank only.*
Green	Heater	30amp output	*12volts in accessory off during start.*
Red	12 power	30amp input	*Constant 12volt power at ignition harness.*
Red	12 power	30amp input	*Constant 12volt power at ignition harness.*
Blue	Ignition 1	30amp output	*12volts in ignition and start positions.*
White	Select Out	30amp output	*Selectable Output. See jumper diagram.*

11 Pin Connector

Yellow	Re-Arm	0.75sec Pulse With Lock And On Shutdown.
Red/White	3rd CH	Trunk Release - Active When The Unlock Is Held For 3seconds.
Brown	Disarm	0.75sec Pulse With Unlock And Before Start.
Orange	(-) Out	(-) While Running / Negative While Locked - ****Starter Program Mode.***
White/Blue	Horn	(-) Horn Honk Output - ***** User Program Mode***
Black/White	Park Brake	Negative Park Brake Input - ***Manual Transmission Models Only.***
Purple	(+) Door	Positive Door Trigger Input - ***Manual Transmission Models Only.***
White	Park Lights	Positive Park light Output - ***10 Amp Max.***
Green/White	Hood Pin	Negative Hood Pin Input - ***MUST BE CONNECTED!!***
Green	(-) Door	Negative Door Trigger Input - ***Manual Transmission Models Only.***
Black	Ground	System Ground Input - ***MUST BE CONNECTED!!***

4 Pin Connector

White/Violet	(-) Running	(-) Output while running. (Output for security bypass modules...)
Blue	Glow Plug	Diesel Glow plug input Positive or Negative. Programmable.
Blue/White	Tach	Tach Signal Input ***- MUST BE CONNECTED!!***
Pink	Brake	Positive Brake Input - ***MUST BE CONNECTED!!***

3 Pin Connector Red

Green	Door Lock	Door Lock Output - **Programmable - Menu 1 Setting 3.**
Red	12vlt Output	Output for Voltage Inverter Only!
Blue	Door Unlock	Door Unlock Output - **Programmable - Menu 1 Setting 3.**

2 Pin Connector

N/A	**Ground**	Ground output for Temperature Senor.
N/A	**Temp Sensor**	Input Trigger To Start.

4 Pin Connector Blue

Antenna/ Program Button Connector.
The Antenna Must Be Connected Before the System will Operate.

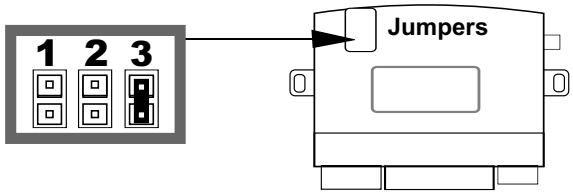
Jumper Selectable Output

This output is designed to power addition ignition circuits. Most new vehicles will have either a second ignition, accessory or starter wire that must be energized. Connect the white wire from the 6-pin connector to the additional circuit and set the jumper for the appropriate output.

Position One ***Second Starter*** Output From The White Wire On The 6-Pin Connector.
Position Two ***Second Accessory*** Output From The White Wire On The 6-Pin Connector.
Position Three ***Second Ignition**** Output From The White Wire On The 6-Pin Connector.
*** The Default Setting For The System Is Second Ignition Output.**

The jumpers control the output from the white wire at the 6-pin harness. Place the jumper in the following positions to change the output.

Output on White wire	Jumper position
Second Starter	Position 1
Second Accessory	Position 2
Second Ignition	**Position 3**



QUICK START INSTALL

Step 1 - Connect All Of the Following Wires

6 Pin Power Connector

Yellow	**Starter Output**	Connect To The Vehicles Starter Wire.
Green	**Heater Output**	Connect To The Vehicles Accessory Wire.
Red	**12 power Input**	Connect To Constant 12 Volt Power Source- ***High Current.***
Red	**12 power Input**	Connect To Constant 12 Volt Power Source- ***High Current.***
Blue	**Ignition 1 Output**	Connect To the Vehicles Primary Ignition.
White	**Selectable Output**	Select Jumper Position (If Necessary)**. See Page 5.**

11 Pin Power Connector

Black	**System Ground**	Connect To Chassis Ground.
White	**Park Lights**	Connect To (+) Park Light System.
Green/White	**Hood Pin**	Connect To The Hood Pin Safety Switch.

4 Pin Power Connector

Blue/White	**Tach**	Connect To A/C Tach Source. (Above 2volts AC)
Pink	**Brake Switch**	Connect To (+) When Brakes Is Applied.

Manual Transmissions Only

Purple	**(+) Door Pin**	Connect on vehicles with (+) door pin systems
Green	**(-) Door Pin**	Connect on vehicles with (-) door pin systems
Black/White	**Park Brake**	Connect to park brake switch. (-) When brake is applied.

Note: Manual Transmission units MUST be set into Reservation Mode to remote start. See page 10. for details.

Step 2- Plug-In The Module

When all the connections are done, the control module can be plugged in. Before connecting the control module, make sure the ignition is in the **OFF** position. Plug in the 6 pin harness then the 14 pin followed by any other connectors that were used.

Step 3- Auto Tach Learn

1) Make all the required wire connections and plug-in the Unit.
**The park lights should flash twice upon power up.
2) Turn the Ignition Key ON. (Park Lights will turn on).
3) Start the vehicle, LED's on antenna will come when proper tach signal is detected**, then after 30-35 seconds the park lights will turn off then flash twice to confirm tach learning.

*** The system will flash the park lights seven times if not tach learned and the start button is pressed. The system must be tach learned before remote starting.**
**** If the LED's do not come on during tach learn, a proper tach signal was not detected**

Note: If the park lights do not flash in auto tach learn mode it may be necessary to connect to a different tach source. For best results connect the tach wire to the coil pack or to a fuel injector wire. **See Page 8 for tach adjustment.**

*****New - A system reset must be done before a new tach signal can be learned to the system.**

Your Basic Install Is Complete!

NOTES:
1) If the unit does not start, check the starter is not in Tach Lock Out or in Program Mode.
2) If the vehicle still does not start, check all connections and check for factory security.

Programming Overview

Program mode allows you to adjust the settings and options of your system.
Your system has been intelligently designed by installers with years of experience. The system's default settings do not require any program changes in most cases. However, this system does incorporate a highly advanced programming system that includes 4 menus with numerous options and settings that can be easily adjusted for custom installations and applications.

User Settings - Page 8

This program menu contains settings that adjust the way the system operates for the user.

Additional Settings - Page 8

This program menu contains settings that control addition user options.

Starter Settings - Page 9

This menu controls features and settings associated with remote car starter applications.

Tach Settings - Page 10

This menu allows the programming of the tach signal and the manual adjustment of that setting.

Entering Program Mode

To Enter Program Mode

1) Make sure ignition is in the off position.
2) Within three seconds turn the key ON - OFF - ON - OFF - ON. **Leave in the "ON" position.**
3) Press and release the Program Button on the antenna 1 time.
4) Park lights will come on and the horn (optional) will honk to confirm entering Program Mode.
5) Select Desired Program Menu by the following:

Press Button #1	**Lock**	**User Options**	**See Page 8**
Press Button #2	**Unlock**	**Additional Options**	**See Page 8**
Press Button #3	**Start**	**Remote Start Options**	**See Page 9**
Press Button #4	**Aux**	**Tach Adjustment Menu**	**See Page 10**

6) The selected mode will be confirmed by a horn honk (*if connected*)and one park light flash.
7) The Program Menu may be changed at any time by pressing the transmitter buttons as above, this allows the installer to change a setting from one menu, then quickly jump to another menu and change another setting without re-entering the Program Mode.
8) Turning off the ignition or 30 seconds of no activity will exit the Program Mode. This will be confirmed by 1 long horn honk and park light flash.

Note: *If unit does not enter Program Mode, turn ignition off for 5 seconds and repeat steps 1-4.*
** The first ignition(Blue)**MUST** be connected to the vehicle's first ignition wire. If it is not connected it will not be possible to enter the Program Modes.

Changing the Programmable Settings

To Select and Change A Program Setting:
1) Enter **Program Mode**.
2) Select the desired **Program Menu.** *(See pages 8 - 10)*
3) Press & release the **Program Button** the correct number of times to select the desired Program Setting(*as listed on pages 8 -10*). The park lights will flash and the horn (optional) will honk to indicate the current setting that is selected.
4) Press and hold the Program Button until the parking lights / horn confirm the selected setting. The park lights will flash and the horn (optional) will honk to indicate the option selected within the setting.
5) Turn the ignition key "Off" to exit Program Mode.
NOTE: This procedure is listed in detail below each program setting on pages 8 - 10 of this manual.

SYSTEM RESET

STEP 1 - Within 3 seconds turn the key ON-OFF-ON-OFF-ON (Leaving Key ON).
STEP 2 - Press and release the Program Button.
STEP 3 - Park Lights will come ON
STEP 4 - Press the Program Button a second time and hold for 8 seconds until the park lights flash 3 Times and horn (Optional) honks 3 times.
System is now re-set to factory defaults.

1350 PROGRAMMING

PROGRAM MODE 1 - USER SETTINGS

Setting 1- Ignition Auto Lock

1 Ignition Lock & Unlock Enabled	1 Light Flash	Doors Lock / Unlock when the key is turned On/ Off
2 Ignition Lock Only	2 Light Flashes	Doors Lock when ignition key is turned ON only
***3 Ignition Auto Lock Disabled**	**3 Light Flashes**	**Doors do not Lock or Unlock with Ignition key**

Press the Program Button 1 time to select setting 1 (This will be confirmed by 1 LED flash)
Press and hold the Program Button until you receive the appropriate # of park light flashes and/or horn honks.
Release the Program Button. Press Program Button momentarily to move to next program step or repeat to change selection.

Setting 2- Horn Honk Settings

1 Lock & Unlock chirps **Disabled**	1 Flash	Honks for Panic and Car Finder Mode only.
2 Lock & Unlock chirps **Enabled**	2 Flashes	Honks for Lock, Unlock, Panic and Car Finder Mode Only.
***3 All chirps enabled**	**3 Flashes**	**Honks for Lock, Unlock, Start, Panic and Car Finder Mode.**

Press the Program Button 2 times to select setting 2 (This will be confirmed by 2 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and/or horn honks
Release the Program Button. Press Program Button momentarily to move to next program step or repeat to change selection.

Setting 3- Door Lock Options

1 Double Pulse Unlock	1 Flash	Single .75sec.Lock pulse and double Unlock Pulse
2 3 Second Lock & Unlock	2 Flashes	3 second pulses for Lock & Unlock
***3 0.75 Second Pulses**	**3 Flashes**	**0.75 second pulses for Lock and Unlock**

See setting 4 for door unlock and disarm output durations.
Press the Program Button 3 times to select setting 3 (This will be confirmed by 3 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and/or horn honks.
Release the Program Button. Press Program Button momentarily to move to next program step or repeat to change selection.

Setting 4 - Door Unlock & Disarm Pulse Duration

1 Short Pulses	1 Flash	125ms pulses with Unlock and on the disarm output. (.125 second)
2* Normal	**2 Flashes**	750ms pulses with Lock, Unlock and on disarm output. (.75 second)

Press the Program Button 7 times to select setting 7 (This will be confirmed by 7 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and siren chirps.
Release the Program Button . Press momentarily to move to next program step or repeat to change selection.
Note: Programming this option will change the pulse length of this output from 750ms to a Much shorter pulse of 125ms.

PROGRAM MODE 2 - ADDITIONAL

Setting 1 - Secure Valet Mode

1 Secure Valet Active	1 Flash	Valet only if ignition "ON" and Program Button is held for 15 seconds
2* Normal Valet Active	**2 Flashes**	**Valet if ignition "ON" and Program Button is held for 5 seconds**

Press the Program Button 1 time to select setting 1 (This will be confirmed by 1 LED flash)
Press and hold the Program Button until you receive the appropriate # of park light flashes and siren chirps.
Release the Program Button . Press momentarily to move to next program step or repeat to change selection.

Setting 2 - Parking Light Output

1 30 Second Parking Lights on Disarm	1 Flash	Park Lights on for 30 seconds on disarm
2 Negative Park Light	2 Flashes	Switches the Park Light and the Trunk Release (3rd Ch) Outputs
3* Normal Parking Lights	**3 Flashes**	**2 Park Light Flashes on disarm**

Press the Program Button 2 times to select setting 2 (This will be confirmed by 2 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and siren chirps.
Release the Program Button . Press momentarily to move to next program step or repeat to change selection.

Setting 3 Horn Honk Timing

1 5ms Pulsed Output	1 Flash	Short (Quiet) Pulses
2 20ms Pulsed Output	2 Flashes	Long (Loud) Pulses
***3 10ms** Pulsed Output	**3 Flashes**	**Normal (Medium) Pulses**

PROGRAM MODE 3 - STARTER SETTINGS

Setting 1- Special Door Lock/ Unlock

1 Type 1	1 Flash	Unlock before start. Lock pulse after start and shutdown
2 Type 2	2 Flashes	Lock pulse only after remote starter shuts off
3*	**Normal Operation 3 Flashes**	**No additional re-lock pulses**

Press the Program Button 1 time to select setting 1 (This will be confirmed by 1 LED flash)
Press and hold the Program Button until you receive the appropriate # of park light flashes and siren chirps.
Release the Program Button . Press momentarily to move to next program step or repeat to change selection.

Setting 2- Gas/ Diesel Mode- Blue Wire on 14-Pin

1 Positive Glow/ 30seconds	1 Flash	Waits a maximum 30 seconds before starting.
2 Timed Delay/ 15 Seconds	2 Flashes	Ignition ON for 15 seconds before engaging remote starter
3*Gas/ Negative Glow Plug	**3 Flashes**	**Waits 2 seconds to start if no diesel input is detected**

Press the Program Button 2 time to select setting 2 (This will be confirmed by 2 LED flash)
Press and hold the Program Button until you receive the appropriate # of park light flashes and siren chirps.
Release the Program Button . Press momentarily to move to next program step or repeat to change selection.

Setting 3- Rearm Output- Yellow Wire on 14-Pin

1 Type 1	1 Flash	Pulse after start and with lock
2 Type 2	2 Flashes	Pulse after start only
3* Factory Re-arm	**3 Flashes**	**0.75 second pulse with lock and after shutdown**

Press the Program Button 3 times to select setting 3 (This will be confirmed by 3 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and/or horn honks.
Release the Program Button. Press Program Button momentarily to move to next program step or repeat to change selection.

Setting 4- Run Time

1 30 Min Run Time	1 Flash	Remote Starter runs for 30min when activated
2 45 Min Run Time	2 Flashes	Remote Starter runs for 45min when activated
3* 15 Min Run Time	**3 Flashes**	**Remote Starter runs for 15 min when activated**

Press the Program Button 4 times to select setting 4 (This will be confirmed by 4 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and/or horn honks.
Release the Program Button. Press Program Button momentarily to move to next program step or repeat to change selection.

Setting 5-Maximum Crank Time

1 10 Seconds	1 Flash	10 sec Max time that starter will stay engaged
2 3 Seconds	2 Flashes	3 sec Max time that starter will stay engaged
3* 5 seconds	**3 Flashes**	**5 sec Max time that starter will stay engaged**

Press the Program Button 5 times to select setting 5 (This will be confirmed by 5 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and/or horn honks.
Release the Program Button. Press Program Button momentarily to move to next program step or repeat to change selection.

Setting 6- Starter Kill/ Bypass Module Output- Orange wire on 14-Pin Con.

1 Active Starter Kill	1 Flash	On when locked, Before ignition and 2 seconds after ignition turns off.
2 Passive Starter Kill	2 Flashes	Same as setting 1 but will arm 60sec after the ignition turns off.
3* Bypass Module	**3 Flashes**	**Output before ignition. Stays on 2 seconds after ignition turns off.**

Setting 7- Safety Start Mode

1 Safety ON	1 Flash	Must press the start button twice to remote start the vehicle
2* Safety OFF	**2 Flashes**	**Press the start button once to remote start the vehicle.**

Press the Program Button 7 times to select setting 7 (This will be confirmed by 7 LED flashes)
Press and hold the Program Button until you receive the appropriate # of park light flashes and/or horn honks.
Release the Program Button. Press Program Button momentarily to move to next program step or repeat to change selection.

PROGRAM MODE 4 - TACH SETTINGS

Setting 1- Auto Tach Learn.

1) Make all the required wire connections and plug-in the Unit.
**The park lights should flash twice upon power up.
2) Turn the Ignition Key ON. (Park Lights will turn on).
3) Start the vehicle, LED's on antenna will come when proper tach signal is detected**, then after 30-35 seconds the park lights will turn off then flash twice to confirm tach learning.

Note: A system reset must be done before a new tach signal can be learned to the module.

Setting 1- Method 2- Low Idle Learn

This option is used for vehicles that maintain a High or Erratic idle after starting and need more than 10 seconds to establish a stable idle.

Step 1 - Enter Program Mode (Ignition ON-OFF-ON-OFF-ON) then press the Program Button on the antenna 1 time.
Step 2 - Enter Program Menu 4 - Press the **#** button on the remote.(**Button #4**).
Step 3 - Start Vehicle - Using the ignition key, make sure not to turn the key off at any time or your will exit programming.
Step 4 - Press the Button - **One time** (Led will start flashing in single cycles) then press and hold Program Button for(5sec).
Step 5 - Release the Button - Led should come on steady to indicate correct tach signal the park light will flash to confirm.

Setting 2- Adjust For Over-Crank

Step 1 - Enter Program Mode (Ignition ON-OFF-ON-OFF-ON) then press the Program button on the antenna 1 time.
Step 2 - Enter Program Menu 4 - Press the **#** button on the remote.(**Button #4**).
Step 3 - Press the Program Button - **2 times** (Led will start flashing 2 times).
Step 4 - Hold the Program Button - For 5 seconds until park lights flash (each time lights flash the setting is reduced).
Step 5 - Release the Button - Exit Program Mode and remote start to test.

Setting 3- Adjust For Under-Crank

Step 1 - Enter Program Mode (Ignition ON-OFF-ON-OFF-ON) then press the Program button on the antenna 1 time.
Step 2 - Enter Program Mode 4 - Press the **#** on the remote.(**Button #4**).
Step 3 - Press the Program Button - **3 times** (Led will start flashing 3 times).
Step 4 - Press and Hold Program - For 5 seconds until park lights flash (each time lights flash the setting is increased).
Step 5 - Release Program - Exit Program Mode then remote start to test.

Reservation Mode - Manual Transmissions Only.

Manual Transmission Remote Starters must have both the door trigger and park brake wires connected. Most installs will require a clutch bypass. This is a temporary bypass. The clutch should only be bypassed during the activation of the remote starter. Never disconnect or alter the switch to be always bypassed. Always use a **"M**" Series Remote Starter on a manual transmission vehicle.

Never install a automatic Remote Starter model into a manual transmission vehicle. It is not recommended to install a remote starter on a convertible type vehicle. If doing so It is highly recommended that a radar sensor is installed to cover the proximity of the gear shift lever. If the radar sensor is tripped the remote starter will exit Reservation Mode.
To enter Reservation Mode, the following steps must be followed.
Step 1 - While the vehicle is running, place the transmission in neutral and apply the parking brake.
Step 2 - Press and release the brake pedal. The park lights will flash.
Step 3 - Turn the ignition key off and the vehicle will stay running.
Step 4 - Exit the vehicle and close the door. The vehicle will then shut off.
Step 5 - The vehicle can now be safely remote started.

NOTE: If the vehicle has a dome light delay, the vehicle may stay running until the dome light turns off. This is normally no longer than 30 seconds. Reservation Mode will automatically be exited if the doors of the vehicle are opened. The set-up mode will then have to be repeated . Reservation Mode Must Be set-up each time the vehicle is parked.

Transmitter Programming

Step 1 - Within three seconds turn the ignition Key ON-OFF-ON-OFF-ON - **Leaving Key ON**
Step 2 - Press and hold the Program Switch - Parking Lights will come ON **if park-lights do not come on at this point, turn key off for 5 seconds, then repeat step 1.
Step 3 - Continue to hold the Program Switch, the park lights go out. (Do not release Program Button)
Step 4 - Press the **LOCK** button on each of **1st car** remote's and press the **#** button on each of the **2nd car** remote's of the transmitters to be programmed. The park lights will flash once and the horn will honk once each time a new code is learned.

Note: Transmitter programming must done quickly. Do not pause more than one second between each transmitter. **All the transmitters** to be used must be programmed at the same time. **All transmitters not programmed at this time will be erased from memory for security. The system holds a maximum of 4 transmitter codes including 2nd car remote codes.**

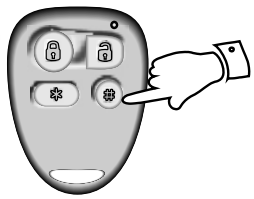
You can program the same remote as a 1st car remote in one vehicle and as a 2nd car remote in a second vehicle.

System Service Mode

ACTIVATING Service Mode
1. While the ignition is "ON" press and hold the Program Button for five seconds. The park lights will flash five times and the horn (optional)will honk five times to confirm that the system is in Service Mode.
2. While in Service Mode the remote start functions will be disabled and LED's will be "ON" steady. Door locks and trunk release are still operational.

DEACTIVATING Service Mode
1. While the ignition is "ON" press and hold the Program Button for five seconds. The park lights will flash two times and the horn (optional)will honk two times to confirm that the system has exited Service Mode.
2. Remote start functions will return to normal operation.

System Service Mode - By Remote



ACTIVATE Service Mode
1 - Press and Release button #4 then press and hold Button #4 again for 6 seconds until Status LED comes on Steady
NOTE: If horn is connected the horn will honk 5 times.

DEACTIVATE Service Mode
1 - Press and Release button #4 then press and hold Button #4 again for 6 seconds until Status LED turn off.
NOTE: If horn is connected the horn will honk 2 times.

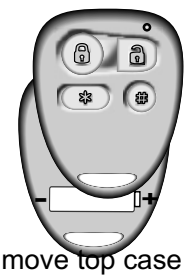
Battery Replacement

The transmitter battery should be changed at least once every year to maintain proper operating range. Replace with quality23A 12volt Alkaline battery.

Step #1

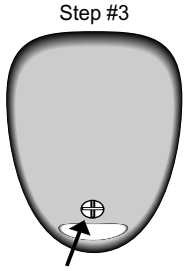
Carefully remove the screw from back of the remote.

Step #2



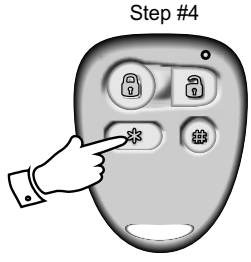
Remove top case then replace the battery.

Step #3



Replace top case. Re-install screw.

Step #4

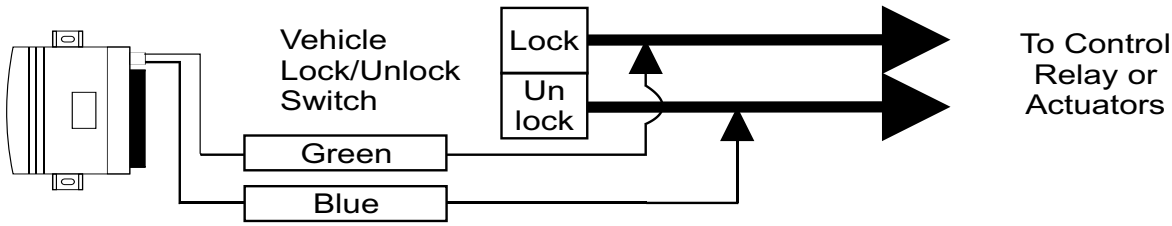


Test remote for proper operation.

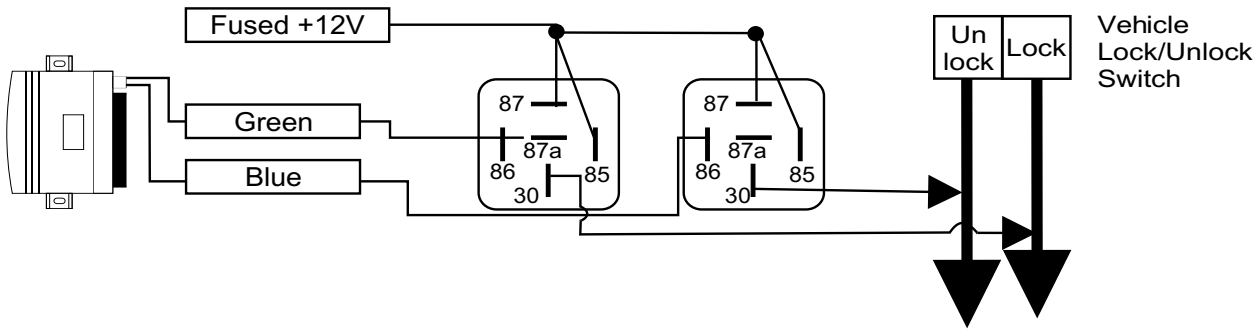
1350 RELAY DIAGRAMS

Use 30A SPDT Automotive Type Relays

Negative Type Door Locks

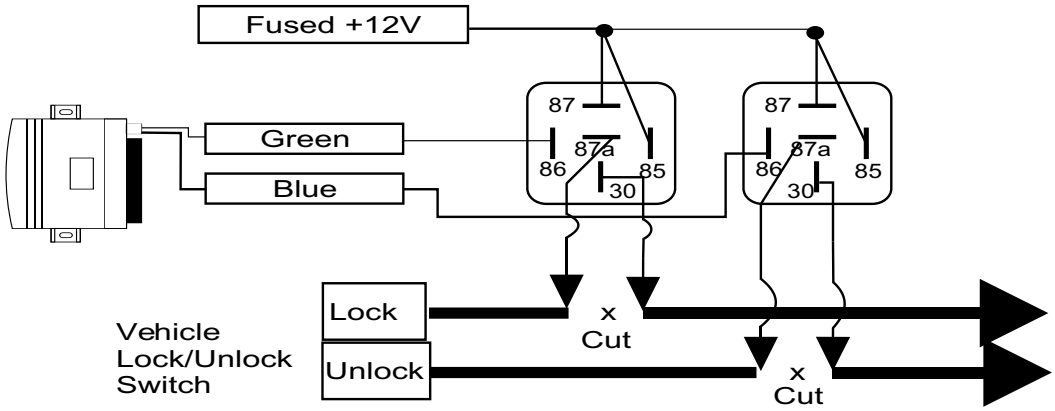


Positive Type Door Locks



Note: Always install a in-line fuse when suppling 12volts to relays.
Never use the center pin of the keyless entry harness to power relays.

5 Wire / Reverse Polarity Type Door Locks



Note: Always install a in-line fuse when suppling 12volts to relays.
Never use the center pin of the keyless entry harness to power relays.